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Applicants: Cristoph Hock et al.  
 Serial No.: 10/554,314  
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### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims

1. (currently amended) A method of monitoring and prognosticating the clinical outcome of an immunotherapy in a human subject suffering from Alzheimer's disease and being immunized against a  ~~$\beta$ -amyloid component~~ pre-aggregated amyloid beta peptide 1-42 (A $\beta$ 1-42), comprising the steps of:
  - (a) obtaining a test sample selected from serum and cerebrospinal fluid (CSF) from the subject,
  - (b) contacting said test sample with a brain tissue section containing  $\beta$ -amyloid plaques, wherein said brain tissue section is derived from brain sections of APP<sup>SW</sup>xPS1<sup>M146L</sup> double-transgenic mice,
  - (c) determining the level of immunoreactivity of said test sample with  $\beta$ -amyloid plaques present in said amyloid plaque-containing tissue section, and
  - (d) comparing said level of immunoreactivity to a level of immunoreactivity determined prior to onset of said immunotherapy in said subject,

wherein an increase in the level of immunoreactivity as compare to the level of immunoreactivity determined prior to onset of said immunotherapy in said subject, is indicative of a positive clinical outcome of said immunotherapy.
2. - 10. (canceled)
11. (withdrawn) A kit for monitoring an immunotherapy in a subject suffering from a neurodegenerative disease associated with the deposition of abnormal protein aggregates, said kit comprising a solid phase containing on its surface an abnormal protein

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aggregate-containing sample.

12. (withdrawn) The kit according to claim 11, wherein said abnormal protein aggregate-containing sample is obtained from a transgenic non-human animal.
13. (withdrawn) The kit according to claim 11, wherein said abnormal protein aggregate-containing sample is a tissue section from a transgenic non-human animal.
14. (withdrawn) The kit according to claim 11, wherein said abnormal protein aggregate-containing sample is a tissue section from a non-human animal transgenic for a human protein, or a fragment, or a derivative, or a mutant thereof, wherein said human protein is a component of said abnormal protein aggregate, and wherein the expression of said transgene results in said non-human animal exhibiting a predisposition to developing abnormal protein aggregates.
15. (withdrawn) The kit according to claim 14, wherein said human protein is the amyloid precursor protein (APP), or a fragment, or a derivative, or a mutant thereof.
16. (withdrawn) The kit according to claim 11, wherein said neurodegenerative disease is an amyloidogenic disease.
17. (withdrawn) The kit according to claim 16, wherein said amyloidogenic disease is Alzheimer's disease.
18. (canceled)
19. (New) The method according to claim 1, wherein said pre-aggregated A $\beta$ 1-42 is AN1792 (QS-21).